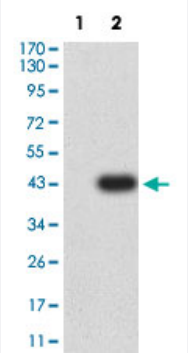
PCK2 monoclonal antibody, clone 3D3D9

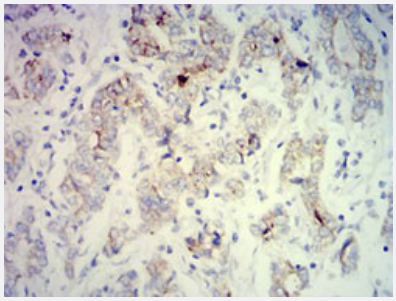
Catalog # MAB21474 Size 100 ug

Applications



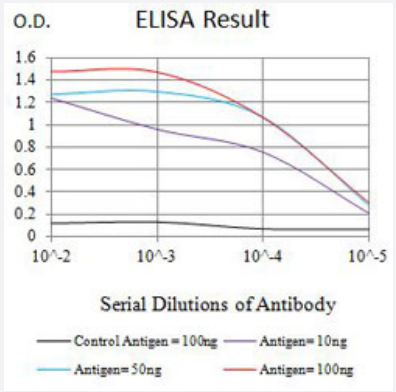
Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: PCK2-hIgGFc transfected HEK293 cell lysates with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



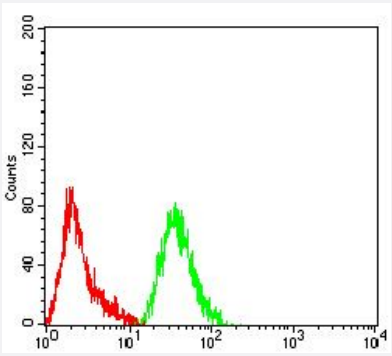
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach carcinoma with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



Flow Cytometry

Flow cytometric analysis of HeLa cells with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474) (Green). Red: Negative Control.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human PCK2.
Immunogen	Recombinant protein corresponding to amino acids 44-175 of human PCK2.
Host	Mouse
Theoretical MW (kDa)	70.7
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunocytochemistry (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

  Western Blot analysis of Lane 1: HEK293 and Lane 2: PCK2-hIgGFc transfected HEK293 cell lysates with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach carcinoma with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Immunocytochemistry

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Flow Cytometry

  Flow cytometric analysis of HeLa cells with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474) (Green). Red: Negative Control.

Gene Info — PCK2

Entrez GeneID	5106
Protein Accession#	Q16822
Gene Name	PCK2
Gene Alias	PEPCK, PEPCK-M, PEPCK2
Gene Description	phosphoenolpyruvate carboxykinase 2 (mitochondrial)
Omim ID	261650
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the phosphoenolpyruvate carboxykinase (GTP) family. The protein is a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of GTP. A cytosolic form encoded by a different gene has also been characterized and is the key enzyme of gluconeogenesis in the liver. The encoded protein may serve a similar function, although it is constitutively expressed and not modulated by hormones such as glucagon and insulin that regulate the cytosolic form. Alternatively spliced transcript variants have been described. [provided by RefSeq
Other Designations	OTTHUMP00000164700|PEP carboxykinase|mitochondrial phosphoenolpyruvate carboxykinase 2|phosphoenolpyruvate carboxylase|phosphopyruvate carboxylase

Pathway

- Adipocytokine signaling pathway
- Citrate cycle (TCA cycle)
- Glycolysis / Gluconeogenesis
- Insulin signaling pathway
- Metabolic pathways
- PPAR signaling pathway
- Pyruvate metabolism

Disease

- Diabetes Mellitus